PTC/SB/08A (10-01)
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| Substitute for form 1449A/PTO | Complete if Known | | | |
| | Application Number | ТВА | | |
| INFORMATION DISCLOSURE | Filing Date | February 23, 2004 | | |
| STATEMENT BY APPLICANT | First Named Inventor | Sang-Hyuk LEE | | |
| | Art Unit | ТВА | | |
| (use as many sheets as necessary) | Evaminer Name | Not Vet Assigned | | |

Attorney Docket Number

| | | | U.S. PATE | NT DOCUMENTS | |
|-----------------------|--------------|---|--------------------------------|---|--|
| Examiner Initials* | Cite No.1 | Document Number Number-Kind Code ² (if known) | Publication Date MM-OD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | AA | | | | |
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| | | FOREI | GN PATENT DO | DCUMENTS | | |
|-----------|------|---|------------------|-----------------------------|--|--|
| Examiner | Cite | Foreign Patent Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant | Γ |
| Initials* | No. | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | TO |
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| xaminer nitials | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-Issue number(s), publisher, city and/or country where published. | Τ² | | | | |
|--------------------|---|--|----|--|--|--|--|
| DN/ | R Kiefer et al. "In-Plane Switching of Nematic Liquid Crystals." Japan Display 1992 r | | | | | | |
| 1 | ** | M. Oh-e, et al., "Principles and Characteristics of Electro-Optical Behaviour with In-Plane Switching Mode." Asia Display, 1995, pp 577-580 | | | | | |
| | ** | M. Ohta, et al., "Development of Super-TFT-LCDs with In-Plane Switching Display Mode." Asia Display, 1995, pp 707-710 | | | | | |
| | ** | S. Matsumoto, et al., "Display Characteristic of In-Plane-Switching (IPS) LCDs and a Wide- Viewing-Angle 14.5-in. IPS TFT-LCD." Euro Display, 1996, pp 445-448 | | | | | |
| | ** | H. Wakemoto, et al., "An Advanced In-Plane-Switching Mode TFT-LCD." Science I. D. 1997, pp 929-932 | | | | | |
| | ** | S. H. Lee, et al., "High-Transmittance, Wide-Viewing-Angle Nematic Liquid Crystal Display controlled by Fringe-Field Switching." Asla display, 1998, pp 371-374 | | | | | |
| BN | ** | S. Endoh, et al., "Advanced 18.1-Inch Diagonal Super-TFT-LCDs with Mega Wide Viewing Angle and Fast Response speed of 20ms." IDW, 1999, pp 187 | | | | | |

| Examiner | DALLINGAL | Date | 06/12/016 |
|-----------|-----------|------------|-----------|
| Signature | UNUITEW | Considered | 100/12/04 |

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| Substitute for form 1449A/PTO | | | | Complete if Known | | |
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| | | | | Application Number | TBA | |
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| S | TATEMENT B | 3Y / | APPLICANT | First Named Inventor | Sang-Hyuk LEE | |
| | | | | Art Unit | TBA | |
| | (use as many sheets as necessary) | | | Examiner Name | Not Yet Assigned | |
| neet | 2 | of | 2 | Attorney Docket Number | 8733.750.20 | |

| Cite No.1 | Document Number | | | |
|--------------|--|--|--|--|
| 110. | Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| ** | 5,598,285- | 01-28-1997 | Kondo et al. | |
| ** | 5,745,207- | 04-28-1998 | Asada et al. | |
| ** | 5,838,037- | 11-17-1998 | Masutani et al. | _ |
| ** | 5,946,060- | 08-31-1999 | Nishiki et al. | |
| ** | 5,990,987- | 11-23-1999 | Tanaka et al. | _ |
| ** | 6,028,653- | 02-22-2000 | Nishida et al. | _ |
| ** | 6,097,454- | 08-01-2000 | Zhang et al. | |
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| , | ** | 5,596,285- 5,745,207- 5,838,037- 5,946,060- 5,990,987- 6,028,653- | 5,398,205- 01-28-1997 5,745,207- 04-28-1998 5,838,037- 11-17-1998 5,946,060- 08-31-1999 5,990,987- 11-23-1999 6,028,653- 02-22-2000 | 5,946,060- 5,990,987- 101-26-1997 Nondo et al. 01-26-1997 Nondo et al. 04-28-1998 Asada et al. 11-17-1998 Masutani et al. 15,946,060- 08-31-1999 Nishiki et al. 15,990,987- 11-23-1999 Tanaka et al. 16,028,653- 02-22-2000 Nishida et al. |

| | _ | FORE | GN PATENT | DOCUMENTS | | |
|-----------------------|---|-------------|--------------------------------|--|--|----------------|
| Examiner Initials* | No. ¹ Country Code ³ Number + Kind Code ⁵ (if known) P9005764A2 | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| UN | | | 01-10-1997 | Ogawa Kazuhiro, et al. | | |
| | ** | JP9105908A2 | 04-22-1997 | Ashizawa Keiichiro, et al. | _ | П |
| | ** | JP9101538A2 | 04-15-1997 | Ota Masuyuki, et al. | | T |
| DW | ** | JP9073101A2 | 03-18-1997 | Ota Masuyuki, et al. | _ | |
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| Examiner I | Darc dam 1 | Date | 20/10/21 |
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